

Abstract

The invention relates to a device connecting method when implementing dynamic
5 networking in a home network which is used to manage a peer-to-peer device in a
network without a resource management device. The device connecting method
includes the steps of: sending a device connecting request from a connection
initiating device to a connection target device; generating a connection challenge
10 value randomly by the connection target device and sending it to the connection
initiating device; generating a connection reply value according to the connection
challenge value by the connection initiating device and sending it to the connection
target device; sending a connection response message from the connection target
device to the connection initiating device according to the connection reply value;
15 and judging a result of connection according to the connection response message,
by the connection initiating device, when the connection response message
represents successful, establishing a peer-to-peer connection between the
connection initiating device and the connection target device. A connection
disconnecting method includes the steps of: if one of devices having a peer-to-peer
20 connection relation sends a connection disconnecting message to the other, then
the connection being able to be disconnected. The initiating and target devices can
be a service providing device and a service utilizing device one another.